

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Cancel claims 1-4.

5. (currently amended) A queuing system comprising:

a plurality of interconnected directors, each one of the directors having:

an input/output interface section receiving information from a source thereof
and for returning information ~~to interface~~ to such source; and,

a microprocessor processing information sent thereto from a remote one of the directors, each one of the microprocessors having a CPU and a CPU memory, such CPU memory storing a queue for inbound information passed to such director for processing therein such information being sent to the remote director from an originating one of the directors; and

wherein each one of the input/output sections includes a queue for outbound information being returned to the source through such originating one of the directors after being processed by the microprocessor of such remote one of the directors ;

wherein each one of the directors includes a translation table, such table storing at a location thereof corresponding to each one of the remote directors a producer index for the queue of such remote director and a consumer index for such one of the remote directors; and;

wherein an index into the table is a function of the receiving information in a queue entry in the queue and derives the location of the source from the table.

Cancel claim 6, 7 and 8.

9. (currently amended) A queuing system comprising:

a plurality of interconnected directors, each one of the directors having:

an input/output interface section receiving information from a source thereof and returning information to interface to such source; and,

a microprocessor processing information sent thereto from a remote one of the directors, each one of the microprocessors having a CPU and a CPU memory, such CPU memory storing a queue for inbound information passed to such director for processing therein such information being sent to the remote director from an originating one of the directors; and

wherein each one of the input/output sections includes a queue for outbound information being returned to the source through such originating one of the directors after being processed by the microprocessor of such remote one of the directors.

10 (withdrawn) A queuing method, comprising:

receiving information) at the I/O interface of an originating director;

creating in the originating director a queue entry;

translating in the originating director an address of the queue entry into an address for a remote director using a translation table;

packetizes the queue information for transmission on the packet switching network to the remote director;

updating in the originating director a producer index for the packetized information;

translating the updated producer index in the originating director using the translation table;

packetizing the translated updated producer index; and

writing the translated producer index for an inbound queue of a remote director rather than storing it in the originating director queue.

11. (withdrawn) The queuing method recited in claim 10 wherein:

the packet is transmitted to the remote director;

the remote director reads information formerly written into by the originating director;

the remote director processes the information and updates its consumer index;

the updated consumer index is sent to the originating director; and

the originating director receives the consumer index from the remote director and translates the index using the translation table and stores the translated consumer index.